

BISON OIL WELL CEMENTING, INC.



1738 Wynkoop St., Ste. 102
Denver, Colorado 80202
Phone: 303-296-3010
Fax: 303-296-8143
E-mail: bisonoil1@qwestoffice.net

INVOICE # 8510

LOCATION Yuma CO

FOREMAN Allen L Brown

TREATMENT REPORT

DATE	WELL NAME	SECTION	TWP	RGE	COUNTY	FORMATION
4-15-10	Witte 23-1B	1	25	45W	Yuma	

CHARGE TO	EXCELL Rig 2	OWNER	Noble Energy
MAILING ADDRESS		OPERATOR	EXCELL Rig 2
CITY		CONTRACTOR	mark z
STATE ZIP CODE		DISTANCE TO LOCATION	60 min
TIME ARRIVED ON LOCATION	3:30pm R 4:30pm	TIME LEFT LOCATION	5:30pm

WELL DATA			PRESSURE LIMITATIONS		
HOLE SIZE	9 7/8	TUBING SIZE	PERFORATIONS	THEORETICAL	INSTRUCTED
TOTAL DEPTH	372	TUBING DEPTH	SHOTS/FT	SURFACE PIPE ANNULUS LONG	
		TUBING WEIGHT	OPEN HOLE	STRING	
CASING SIZE	7	TUBING CONDITION		TUBING	

CASING DEPTH	361	set 36.7	TREATMENT VIA	TYPE OF TREATMENT	TREATMENT RATE
CASING WEIGHT	17	PACKER DEPTH		<input checked="" type="checkbox"/> SURFACE PIPE	BREAKDOWN BPM
CASING CONDITION	Good	Shoe 527		<input type="checkbox"/> PRODUCTION CASING	INITIAL BPM
				<input type="checkbox"/> SQUEEZE CEMENT	FINAL BPM
				<input type="checkbox"/> ACID BREAKDOWN	MINIMUM BPM
				<input type="checkbox"/> ACID STIMULATION	MAXIMUM BPM
				<input type="checkbox"/> ACID SPOTTING	AVERAGE BPM
				<input type="checkbox"/> MISC PUMP	
				<input type="checkbox"/> OTHER	HYD HHP = RATE X PRESSURE X 40.8

PRESSURE SUMMARY		
BREAKDOWN or CIRCULATING	psi	AVERAGE
FINAL DISPLACEMENT	psi	ISIP
ANNULUS	psi	5 MIN SIP
MAXIMUM	psi	15 MIN SIP
MINIMUM	psi	

INSTRUCTIONS PRIOR TO JOB MIRR safety m-p 166 sks B3-lite 50/50 Poz 3%
w/15.2 H2O req 4.78 yd 1.13 mix 1818 Displace 13.5 BBLs
shut in well Break off clean up to Pit

Annulus .2647 Capacity .0415 EXCESS 90% Shoe 40

JOB SUMMARY

DESCRIPTION OF JOB EVENTS

MIRR safety	CTRC m-p	Displace	shut in well
3:39	4:25	4:26 4:29	4:39
		4:42 10 200	
		4:44 13.5 200	

BBLs 11 to Pit

AUTHORIZATION TO PROCEED Drilling 11-15-10 DATE

Customers hereby acknowledges and specifically agrees to the terms and conditions on this work order, including, without limitation, the provisions on the reverse side hereof which include the release and indemnity.

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INVOICE # 8515
LOCATION Vernon
FOREMAN Randel Newton

TREATMENT REPORT

DATE <u>4-17-10</u>	WELL NAME <u>Little 23-1B</u>	SECTION <u>1</u>	TWP <u>2S</u>	RGE <u>45W</u>	COUNTY <u>Yuma</u>	FORMATION
CHARGE TO <u>Noble Energy</u>		OWNER <u>Noble</u>				
MAILING ADDRESS		OPERATOR				
CITY		CONTRACTOR <u>Excelling 2</u>				
STATE ZIP CODE		DISTANCE TO LOCATION <u>60m</u>				
TIME ARRIVED ON LOCATION <u>2:10 p.m.</u>		TIME LEFT LOCATION <u>4:16 p.m.</u>				

WELL DATA			PRESSURE LIMITATIONS	
HOLE SIZE <u>6 7/8</u>	TUBING SIZE	PERFORATIONS	THEORETICAL	INSTRUCTED
TOTAL DEPTH <u>2405</u>	TUBING DEPTH	SHOTS/FT	SURFACE PIPE ANNULUS LONG	
	TUBING WEIGHT	OPEN HOLE	STRING	
CASING SIZE <u>4 1/2</u>	TUBING CONDITION		TUBING	
CASING DEPTH <u>2403</u>	Packer Depth <u>2360</u>	TREATMENT VIA	TYPE OF TREATMENT	
CASING WEIGHT <u>10.5#</u>			TREATMENT RATE	
CASING CONDITION <u>good</u>			<input type="checkbox"/> SURFACE PIPE <input checked="" type="checkbox"/> PRODUCTION CASING <input type="checkbox"/> SQUEEZE CEMENT <input type="checkbox"/> ACID BREAKDOWN <input type="checkbox"/> ACID STIMULATION <input type="checkbox"/> ACID SPOTTING <input type="checkbox"/> MISC PUMP <input type="checkbox"/> OTHER	
PRESSURE SUMMARY			BREAKDOWN BPM INITIAL BPM FINAL BPM MINIMUM BPM MAXIMUM BPM AVERAGE BPM HYD HHP = RATE X PRESSURE X 40.8	
BREAKDOWN or CIRCULATING psi	AVERAGE psi			
FINAL DISPLACEMENT psi	ISIP psi			
ANNULUS psi	5 MIN SIP psi			
MAXIMUM psi	15 MIN SIP psi			
MINIMUM psi				

INSTRUCTIONS PRIOR TO JOB MIRU SM Circ mwp 79 sk N-Gel-12 @ 12 lb/gal water req 15.6 gal/sk
29 BBLs mix of BG-1.1c @ 13.8 lb/gal water req of 9.7 gal/sk 13 BBLs mix
Drop plug Displace w/ 37.5 BBLs H₂O Land plug Rig down
Annulus 1026 cap 0159
20% Excess as per Sam Chart

JOB SUMMARY
 DESCRIPTION OF JOB EVENTS MIRU SM Circ mwp Drop plug Displace Land plug Rig down
2:10 a.m. 3:05 a.m. 3:10 a.m. 3:16 a.m. 3:35 a.m. 3:40 a.m. 3:54 a.m. 3:57 a.m.
3:02 10 200 1300 PSI
3:45 20 400
3:50 38 700
3:54 37.5 1300

9 BBLs cement to P.T
Land plug w/ 1300 PSI

Sam Chart field Rep 4-17-10
 AUTHORIZATION TO PROCEED _____ TITLE _____ DATE _____

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